

Grevillea,

A MONTHLY RECORD OF CRYPTOGAMIC BOTANY,
AND ITS LITERATURE.

NOTICES OF NORTH AMERICAN FUNGI.

By THE REV. M. J. BERKELEY, M.A., F.L.S.

(Continued from Page 71.)

- * **Hydnum (Apus) pulcherimum.** *B. & C.*—Kew Gard. Misc. i. p. 235. Dimidiate, thick-lobed, spongy, between fleshy and fibrous, hirsute, zoned within, margin thin; prickles rather short, awl-shaped. No. 1648. Santee River. Ravenel.

* **Hydnum (Apus) septentrionale.** *Fr.*—No. 5203. Alabama, Peters. On Linden.

- * **Hydnum (Apus) cirrhatum.** *Fr.*—No. 1419. Car. Inf. On oak. No. 4639. Alabama, Beaumont. Ohio, Lea. No. 2860. Car. Inf. On Liriodendron, orbicular, resupinate, spongy beneath, is apparently a resupinate form of one of the three foregoing species.

- 176. **Hydnum (Apus) glabrescens.** *B. & Rav.*—Umbrinum, pileo dimidiato, glabratto, concentrica sulcato; aculeis elongatis, acutis, demum compressis. No. 1634. Car. Inf.—Ravenel, on Carya. Ceylon, G. H. K. Thwaites. No. 385. Central Provinces. Pale umber, or reddish-brown, with a paler margin; pileus 1-3 inches across, dimidiate, more or less imbricated, and sometimes elongated, tomentose, gradually becoming smooth, deeply sulcated concentrically; prickles of the same colour as the pileus, acute, more or less compressed, about a line long.

- * **Hydnum (Apus) flabelliforme.** *B.*—After examining a large series of specimens, this appears to be too closely allied to *H. Rhois*, Schwein. Indeed, it approaches so near to unusually thick specimens of *H. ochraceum*, that it is sometimes difficult to distinguish.

- 177. **Hydnum (Apus) plumarium.** *B. & C.*—Pileo conchiformi minuto, candido, villosa, aculeis acutis tomentosis. No. 4936. Car. Sup. On Viburnum.

Pileus 1-2 lines across, white, conchiform, villous; prickles acute, tomentose, pale flesh-coloured. Specimens occur not exceeding.

these in size, resupinate, with the margin reflected, and others nearly an inch across, also resupinate.

* **Hydnum (Resupinatum) fusco-atrum.** *Fr.*—No. 2422. Car. Inf. No. 2723. Car. Inf. on *Magnolia glauca*.

—178. **Hydnum (Resupinatum) subvelutinum.**—*B. & C.*—Resupinatum, breviter reflexum subvelutinum ferrugineum, aculeis compressis apice pallidioribus subvelutinis. No. 6012. Penns., Michener.

Ferruginous. Some inches in breadth, resupinate, with one edge slightly reflected and somewhat velvety; prickles compressed, sometimes compound, paler at the tip, more or less velvety.

* **Hydnum (Resupinatum) membranaceum.** *Bull.*—No. 2025, 2185. No. 2924. Car. Inf. No. 935. Ravenel.

* **Hydnum (Resupinatum) ferruginosum.** *Fr.*—No. 2105, 2414. Car. Inf. 3950. Penns., Michener. 4861. Alabama, Beaumont.

—179. **Hydnum (Resupinatum) amplissimum.** *B. & C.*—Crassum suberosum, effusum, intus pallidum fibrosum; aculeis subulatis acutis rufis. No. 5323. No. 5383.

New Eng., Sprague. On *Cerasus*.

Effused for several inches, irregular, $\frac{1}{2}$ an inch or more thick, of a firm corky substance, but fibrous when torn across; prickles elongated, subulate, acute, rufous.

—180. **Hydnum (Resupinatum) xanthum.** *B. & C.*—Totum resupinatum tenue margine e subtiliter tomentoso ceraceo, aculeis xanthis sparsis compressis subdivisis ceraceis. No. 2266, 4445. Car. Inf. On *Castanea vesca*.

Two or three inches across, at first orbicular, white and delicately tomentose, then waxy; prickles lemon-coloured, scattered, compressed, often compound, tips, when perfect, white and tomentose.

—181. **Hydnum (Resupinatum) Halei.** *B. & C.*—Tenue crustosum, aculeis brevissimis flavis demum obtusatis. No. 3657, 3666. Louisiana, Dr. Hale. On *Liriodendron*.

One inch or more across, thin, crust-like, with sometimes a very thin pale margin; prickles short, yellow, at length obtuse. Like many resupinate species difficult of definition, though distinct. *H. armeniacum*, B. & Rav. No. 1296, is apparently a younger state of the same species in which the subiculum is more evident.

—182. **Hydnum (Resupinatum) chrysellum.** *B. & C.*—Totum resupinatum hic illic interruptum subiculo candido; aculeis elongatis flavis acutis. No. 3649. Louisiana, Dr. Hale.

About an inch across, entirely resupinate, interrupted by the white substratum; prickles elongated, acute, yellow. Allied to the last.

—183. **Hydnum (Resupinatum) chrysodon.** *B. & C.*—Totum resupinatum tenue subiculo e fibrilloso ceraceo; aculeis paucis parcis elongatis acutis flavis. No. 2511. Car. Inf. On oak chips.

At first of a delicate fibrillose substance, which gradually acquires a waxy covering, on which the elongated acute yellow prickles are sparingly scattered.

- 184. **Hydnum (Resupinatum) fascicularia.** *B. & C.*—Totum resupinatum ceraceum pallidum; aculeis fasciculatis brevibus obtusis quandoque apice ciliatis. No. 4725. Car. Inf. On *Nyssa*. (No. 565, 1546, Rav.)

Widely effused, very thin, waxy, inseparable from the matrix, pallid, but varying in tint; prickles fasciculate, short, obtuse, sometimes ciliated at the top as in *Kneiffia*. No. 6105. Alabama, Peters. Specimens on *Carya*, distributed as *H. areolatum* are perhaps an advanced state of this species, in which the prickles are collected in groups, and approaching *H. udum*.

* **Hydnum (Resupinatum) udum.** *Fr.*—No. 2701. Car. Inf. On *Acer*. 4925. Car. Sup. On oak. (Rav. 935, 1546.)

* **Hydnum (Resupinatum) Himantia.** *Schwein.*—No. 6106. Alabama, Peters. On *Fraxinus*. Penns., Dr. Michener.

- 185. **Hydnum (Resupinatum) Cookei.** *B.*—Tenue, subliberum, subiculo membranaceo, hic illic byssideo, fibrilloso; hymenio isabellino; aculeis brevibus obtusis. No. 6051. Car. Inf. On *Liquidambar*.

Thin, membranaceous, more or less separable from the matrix, here and there byssoid or fibrillose; hymenium of a brownish-buff, with scattered, short, obtuse, small prickles.

- * **Hydnum (Resupinatum) pithyophilum.** *B. & C.*—Kew Gard. Misc. i. p. 235. Resupinate, effused, subiculum very thin, byssoid, farinaceous; prickles ochraceous, compressed, toothed, and lacerated above. No. 1501, 2060, 4811. Car. Inf. No. 5603. Connect., C. Wright. No. 4811, was originally named *H. mellitum*, but it appeared afterwards that it was discoloured by poison.

- * **Hydnum (Resupinatum) ciliolatum.** *B. & C. l. c.*—Resupinate, thin, orbicular, scarcely separable from the matrix; prickles short, compressed, floccoso-ciliate. No. 1464, 2204. Car. Inf. No. 1779, Rav. On *Magnolia glauca*.

- 186. **Hydnum (Resupinatum) lacticolor.** *B. & C.*—Late effusum, margine demum separabili subbyssideo; aculeis lâte ochraceis compressis subvelutinus apice dentato-laceratis. No. 2930. Car. Inf. 4647, 5166. Alabama, Beaumont. On oak. (No. 894. Car. Inf. Rav.)

Effused for several inches, at length more or less separable at the margin, where it is slightly byssoid or tomentose; hymenium reddish-ochre; prickles compressed, somewhat velvety, toothed and lacerated at the apex. A fine species.

* **Hydnum (Resupinatum) mucidum.** *Fr.*—(No. 1503. Rav.) No. 6058. On *Liquidambar*. 6103. On *Carya*. Alabama, Peters.

The latter is infested with a *Septedonium*.

* **Hydnum (Resupinatum) alutaceum.** *P.*—No. 563. Car. Sup. 1143. Car. Inf. (1531, Rav.) No. 3928, 6019. Penns., Michener. No. 4724. Car. Inf. No. 5599. Connect., C. Wright.

— 187. **Hydnum (Resupinatum) velatum.** *B. & C.*—Subiculo tomentoso, albo demum aculeos ceraceos brevibus subfasciculatis obducente. No. 2393. Car. Inf. On pine.

Subiculum white, tomentose, soon running over the short waxy prickles, which are sometimes fasciculate.

— 188. **Hydnum (Resupinatum) nudum.** *B. & C.*—Subiculo fere nullo, vel tenuissimo, farinaceo; aculeis sparsis ceraceis subulatis. No. 2220, 2407, 4489, 4823. Car. Inf. 6221. Wisconsin, Lapham. On Polypori, *Patellaria planata*, or on pine wood.

Subiculum almost obsolete, or extremely thin and farinaceous; prickles waxy, scattered, subulate, acute, easily coalescing.

* **Hydnum (Resupinatum) plumosum.** *Duby.*—No. 5712. New Eng., Murray. 6047. Car. Inf.

— 189. **Hydnum (Resupinatum) caryophylleum.** *B. & C.*—Totum resupinatum pulveraceum; aculeis in fasciculos subdigitatos connatis. No. 2330. Car. Inf. (1362. Rav.)

Entirely resupinate, white, becoming dingy and somewhat umber when old, pulverulent; prickles joined into distinct, somewhat digitate, flat, petal-shaped bundles.

— 190. **Hydnum (Resupinatum) fragilissimum.** *B. & C.*—Fragile, subiculo byssideo, hic illic fibrilloso-repente; hymenio ceraceo aculeis brevibus subulatis. No. 2608. Car. Inf.

Extremely brittle when dry; subiculum white, byssoid, with a few creeping fibres; hymenium waxy; prickles short, distinct.

— 191. **Hydnum (Resupinatum) Nyssæ.** *B. & C.*—Subiculo eximie pulverulento; aculeis elongatis subulatis acutis quandoque apice fimbriatis. No. 3716, Car. Inf. 4362. Penns., Michener.

Subiculum copious, pulverulent; prickles elongated, subulate, acute, sometimes pencilled at the tip. Whole plant dry, of a dull buff.

— 192. **Hydnum (Resupinatum) parasitans.** *B. & C.*—Parasiticum, aculeis brevibus compressis obtusis. No. 6113. Alabama, Peters. On *Ulmus Americana*.

Parasitic on the teeth of some *Hydnum*; subiculum obsolete; prickles short, compressed, obtuse. —

— 193. **Hydnum (Resupinatum) setulosum.** *B. & C.*—Subiculo candido lacteo membranaceo; aculeis flexuosis subulatis acutis subtiliter sutuloris. No. 6086. Alabama, Peters. On *Liquidambar*.

Subiculum membranaceous, white, forming a broad border to the hymenium, which is quite confined to the centre; prickles waved, subulate, minutely setulose under a lens. A very distinct species.

- 194. **Hydnum (Resupinatum) Murraili.** *B. & C.*—Subiculum membranous, thin, white; prickles scattered, subulate, acute; of a pinkish ochre. No. 5707. New Eng., Murray.

On very rotten wood. Subiculum, spreading widely, very thin, membranaceous, slightly byssoid and pulverulent; prickles scattered, of a reddish tint, subulate, smooth.

This species, perhaps, should come next to *H. Cookei*. It is, however, very difficult to say what is the colour of the prickles when fresh.

- 195. **Hydnum (Resupinatum) Micheneri.** *B.*—Subiculo e floccis intertextum hic illuc fibrillis repentibus; aculeis verrucæformibus brevibus apice subciliatis. No. 4368. Penns., Michener.

Entirely resupinate; subiculum composed of interwoven flocci, which here and there send out creeping threads; aculei verrucæform, the tips sometimes minutely ciliated. This species approaches *Kneiffia*.

- 196. **Hydnum (Resupinatum) ischnodes.** *B.*—Subiculo e floccis intertextum hic illuc fibrillis repentibus; aculeis subulatis gracilibus. No. 6093.

Subiculum as in the last, but the hymenium totally different; prickles slender, waxy, subulate or nearly cylindrical, almost rufous when dry.

* **Hydnoglaeum gelatinosum.** *Cur.*—No. 2420. Car. Inf. On pine.

This is *Hydnum gelatinosum*, Scop., but differs materially in structure from *Hydnum*. There are two or three other species.

* **Hericium hystrix.** *Fr.*—No. 1751. Car. Inf.

* **Irpea pendulus.** *Fr.*—No. 3038, 3722. Car. Inf.

* **Irpea fusco-violaceus.** *Fr.*—No. 3937, 4269. Penns., Michener.

* **Irpea lacteus.** *Fr.*—No. 2199. Car. Inf. On oak.

- * **Irpea mollis.** *B. & C.*—Kew Gard. Misc. i. p. 236.

Pileus dimidiate, plane; coriaceous, dirty white, tomentose; prickles long, compressed, tips subulate or dilated. No. 1729. Car. Inf. (1744. Rav.), No. 3203. Car. Inf. In some specimens the pileus is decurrent behind, or resupinate.

- * **Irpea crassus.** *B. & C.*—Thick, corky; adnate behind and decurrent, subimbricate; pileus finely pubescent, zoned within, teeth lamellar, somewhat fimbriated at the tips. Two inches thick, teeth $\frac{1}{2}$ — $\frac{1}{2}$ inch long.

No. 170, Car. Sup. 3072, 3261. Sartwell, 3371, 3394. Massac. 3506. Penns., Michener.

* **Irpea sinuosus** *Fr.*—No. 5593. 5600. Connect., C. Wright.

- 197. **Irpea coriaceus.** *B. & Rav.*—Pileo dimidiato portice decurrente imbricato tabacino concentrica sulcato tomentoso; dentibus ferrugineis compressis. (No. 1111. Rav.) Car. Inf.

Pileus tobacco-coloured, coriaceous dimidiate, decurrent behind; concentrically sulcate, $1\frac{1}{2}$ -2 inches across; teeth short, irregular, compressed, with a greenish bloom. This is *Hydnum trachyodon*. Lév. From Bogota. It is found also in Cuba.

- 198. **Irpea tabacinus.** *B. & C.*—Breviter reflexus subzonatus pubescens postice longe decurrentis late tabacinus. Hymenio concolore; dentibus compressis. No. 2358, 2932. Car. Inf. 2922. Car. Inf. A Polyporoid form. No. 3152. Texas, C. Wright (1088. Rav.).

Shortly reflexed, imbricated, decurrent behind, velvety, sometimes zoned, bright brown; hymenium of the same colour; teeth compressed. Allied to the last, but the teeth have not the bloom of that species, and the pileus is less dimidiate.

- 199. **Irpea pityreus.** *B. & C.*—Parvus, brunneus; pileo conchiformi subvelutino sericeo, ezonato; hymenio concolore; dentibus compressis. No. 6329. Rhode Island, Bennett.

Pileus scarcely $\frac{1}{2}$ inch across, conchiform, brown, somewhat velvety, silky towards the margin; hymenium of the same colour; teeth compressed. Allied to the two last.

* **Irpea cinnamomeus.** *Fr.*—No. 1005, 1006, 1642, 1978. Car. Inf. No. 436, 447, 875. Car. Sup.

- 200. **Irpea Schweinitzii.** *B. & C.*—Resupinatus, subiculo membranaceo, separabili, margine sterili, brevi, byssoideo; dentibus carneo-griseis compressis. No. 4655. Alabama, Beaumont.

Scarcely exceeding $\frac{1}{2}$ an inch in breadth; suborbicular; subiculum thin, membranaceous, byssoid, separable from the matrix; teeth confined to the centre, compressed, pinkish-grey, subporiform.

p.145

SCHISTOSTEGA OSMUNDACEA.—Your correspondent (W. W. Reeves) is in error concerning this moss, as I find it abundantly at Guildford, in the holes made by sand martins. It was first pointed out to me by the celebrated cryptogamist, Mr. Borrer, in 1852-3.

E. CAPRON.

Uromyces Behenis. *Ler.*—“Campion Uromyces.” On both surfaces of the leaves, and on the stems; pustules subrotund or confluent, for a long time covered by the cuticle; spores coherent, ovoid, brown, on long hyaline pedicels.—*Leveille. Ann. Des Sc. Nat.* viii. (1847), pp. 371 *Kickx. Fl. Crypt.* ii., p. 75. *Uredo behenis*, *D.C. Fl. Fr.* vi., p. 63. *Cæoma behenis*, *Link. Sp.* ii., 27.

On *Silene inflata* in company with *Æcidium behenis*. Near Chichester (Dr. Paxton). Aug.